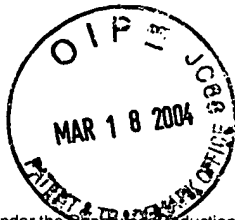


61



AP/3616

PTO/SB/21 (02-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/092,699
	Filing Date	March 7, 2002
	First Named Inventor	Steven P. Spagnuolo
	Art Unit	3616
	Examiner Name	David R. Dunn
Total Number of Pages in This Submission	Attorney Docket Number	KOY02 001

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input checked="" type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Statement Under 37 CFR 3.73(b); Copies of Assignments and Change of Name Documents; Return Postcard
<div style="border: 1px solid black; padding: 5px; display: inline-block;">Remarks</div>		
SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT		
Firm or Individual name	John M. Johnson	
Signature		
Date	March 16, 2004	

RECEIVED

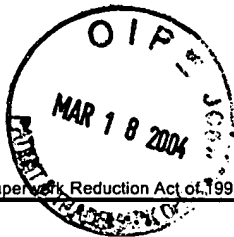
MAR 23 2004

GROUP 3600

CERTIFICATE OF TRANSMISSION/MAILING			
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.			
Typed or printed name	Sarah A. Marciano		
Signature		Date	March 16, 2004

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



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**STATEMENT UNDER 37 CFR 3.73(b)**

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**MAR 23 2004**

**GROUP 3600**

Applicant/Patent Owner: Tennessee Koyo Steering Systems Co.

Application No./Patent No.: 10/092,699 Filed/Issue Date: March 7, 2002

Entitled: STEERING LINK WITH BUCKLE PORTION

Koyo Steering Systems of North America, Inc., a a General Partnership  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

states that it is:

1. ☒ the assignee of the entire right, title, and interest; or
2. ☐ an assignee of less than the entire right, title and interest.  
The extent (by percentage) of its ownership interest is \_\_\_\_\_ %  
in the patent application/patent identified above by virtue of either:

A. ☐ An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

OR

B. ☐ A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
2. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.
3. From: \_\_\_\_\_ To: \_\_\_\_\_  
The document was recorded in the United States Patent and Trademark Office at Reel \_\_\_\_\_, Frame \_\_\_\_\_, or for which a copy thereof is attached.

☐ Additional documents in the chain of title are listed on a supplemental sheet.

☒ Copies of assignments or other documents in the chain of title are attached.  
(NOTE: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

Feb, 17, 2004  
Date  
734-454-7033  
Telephone number

Hitoshi Moriya  
Typed or printed name  
H. Moriya  
Signature  
President  
Title

This collection of information is required by 37 CFR 3.73(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Application Serial No. \_\_\_\_\_ Attorney Docket No. K0Y02 001

PATENT Nos.: 5,709,283; 6,286,382; 6,422,779

Application Nos: 2003/0168826; PCT/US03/05604

DATE MAILED: March 16, 2004

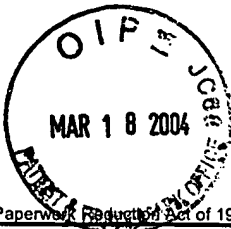
PLEASE STAMP AND CONFIRM RECEIPT IN THE U.S. PATENT OFFICE OF THE FOLLOWING:

☒ Assignment and Recordation Cover Sheet

☒ Check No. 009119 for \$ 200.00

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PTO/SB/81 (09-03)

Approved for use through 11/30/2005. OMB 0651-0035

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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**POWER OF ATTORNEY  
and  
CORRESPONDENCE ADDRESS  
INDICATION FORM**

Application Number	10/092,699
Filing Date	March 7, 2002
First Named Inventor	Steven P. Spagnuolo
Title	STEERING LINK WITH BUCKLE...
Art Unit	N/A
Examiner Name	N/A
Attorney Docket Number	KOY02 001

I hereby appoint:

☐ Practitioners associated with the Customer Number:

OR

☒ Practitioner(s) named below:

Name	Registration Number
John M. Johnson	33,334

as my/our attorney(s) or agent(s) to prosecute the application identified above, and to transact all business in the United States Patent and Trademark Office connected therewith.

Please recognize or change the correspondence address for the above-identified application to:

☐ The address associated with the above-mentioned Customer Number:

OR

☐ The address associated with Customer Number:

OR

☒ Firm or Individual Name John M. Johnson

Address Carter Ledyard &amp; Milburn LLP

Address 2 Wall Street

City New York State New York Zip 10005

Country United States

Telephone (212) 238-8650 Fax (212) 732-3232

I am the:

☐ Applicant/Inventor.☒ Assignee of record of the entire interest. See 37 CFR 3.71.  
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)**SIGNATURE of Applicant or Assignee of Record**

Name	Hitoshi Moriya		
Signature	<i>H. Moriya</i>		
Date	Feb. 17, 2004	Telephone	734-454-7033

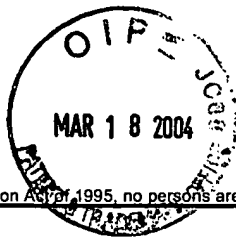
NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☐ \*Total of \_\_\_\_\_ forms are submitted.

This collection of information is required by 37 CFR 1.31 and 1.33. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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PTO/SB/82 (09-03)

Approved for use through 11/30/2005. OMB 0651-0035

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**REVOCATION OF POWER OF  
ATTORNEY WITH  
NEW POWER OF ATTORNEY  
AND  
CHANGE OF CORRESPONDENCE ADDRESS**

Application Number	10/092,699
Filing Date	March 7, 2002
First Named Inventor	Steven P. Spagnuolo
Art Unit	3616
Examiner Name	David R. Dunn
Attorney Docket Number	KOY02 001

**I hereby revoke all previous powers of attorney given in the above-identified application.**☒ A Power of Attorney is submitted herewith.**OR**☐ I hereby appoint the practitioners associated with the Customer Number:**RECEIVED**

MAR 23 2004

**GROUP 3600**☒ Please change the correspondence address for the above-identified application to:☐ The address associated with  
Customer Number:**OR**

<input checked="" type="checkbox"/> Firm or Individual Name	John M. Johnson				
Address	Carter Ledyard & Milburn LLP				
Address	2 Wall Street				
City	New York	State	New York	Zip	10005
Country	United States				
Telephone	(212) 238-8650	Fax	(212) 732-3232		

I am the:

☐ Applicant/Inventor.☒ Assignee of record of the entire interest. See 37 CFR 3.71.  
Statement under 37 CFR 3.73(b) is enclosed. (Form PTO/SB/96)**SIGNATURE of Applicant or Assignee of Record**

Name	Hitoshi Moriya		
Signature	<i>H. Moriya</i>		
Date	Feb. 17, 2004	Telephone	734-454-7023

NOTE: Signatures of all the inventors or assignees of record of the entire interest or their representative(s) are required. Submit multiple forms if more than one signature is required, see below\*.

☐ \*Total of \_\_\_\_\_ forms are submitted.

This collection of information is required by 37 CFR 1.36. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 3 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Form PTO-1595  
(Rev. 10/02)

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U.S. Patent and Trademark Office

OMB No. 0651-0027 (exp. 6/30/2005)

Tab settings ⇌ ⇌ ⇌ ▼ ▼ ▼ ▼ ▼ ▼

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Tennessee Koyo Steering Systems Company

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: 02/25/2004

2. Name and address of receiving party(ies)

Name: Koyo Steering Systems of North America, Inc.  
Internal Address: \_\_\_\_\_

**RECEIVED**

**MAR 23 2004**

**GROUP 3600**

Street Address: 47771 Halyard Drive

City: Plymouth State: MI Zip: 48170

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s) \_\_\_\_\_  
2003/0168826; PCT/US03/05604

B. Patent No.(s) 5,709,283;  
6,286,382; 6,422,779

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: John M. Johnson

Internal Address: Carter Ledyard & Milburn LLP

Street Address: 2 Wall Street

City: New York State: NY Zip: 10005

6. Total number of applications and patents involved: 5

7. Total fee (37 CFR 3.41).....\$ 200

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

8. Deposit account number:

DO NOT USE THIS SPACE

9. Signature.

John M. Johnson Reg. No. 33,334

Name of Person Signing

  
Signature

March 16, 2004

Date

Total number of pages including cover sheet, attachments, and documents: 2

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

ASSIGNMENT OF PATENTS

**WHEREAS**, Tennessee Koyo Steering Systems Company, a Tennessee general partnership having a place of business at 55 Excellence Way, Vonore, Tennessee 37885 ("Assignor"), is the exclusive owner of the following U.S. patent applications, U.S. patents and their foreign equivalents (collectively referred to as "Patents"):

U.S. Patent No. 5,709,283  
U.S. Patent No. 6,286,382 B1  
U.S. Patent No. 6,422,779 B1  
U.S. Patent Application No. 2003/0168826A1  
PCT Patent Application No. PCT/US03/05604  
German Patent Application No. 101 07449.2

**WHEREAS**, Koyo Steering Systems of North America, Inc., a Delaware general partnership having a place of business at 47771 Halyard Drive, Plymouth, MI 48170 ("Assignee"), desires to acquire the entire right, title and interest in, to and under the Patents and the inventions covered thereby;

**NOW THEREFORE**, for and in consideration of the sum of One Dollar (\$1.00), to it in hand paid by said Assignee, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledge, said Assignor does hereby sell, assign, transfer and set over to said Assignee all its right, title and interest in, to and under said Patents and the inventions covered thereby and any divisions, reissues, continuations and extensions thereof, together with all rights to be held and enjoyed by said Assignee, for its own use and benefit and for the use and benefit of its successors, assigns or other legal representatives, to the end of the term for which said Patents are granted or reissued as fully and entirely as the same would have been held and enjoyed by said Assignor if this Assignment and sale had not been made.

**AND**, said Assignor hereby covenants that it has full right to convey the entire interest herein assigned.

**IN TESTIMONY WHEREOF**, Assignor has executed this Assignment by its proper officers thereunto duly authorized.

TENNESSEE KOYO STEERING SYSTEMS COMPANY

By: Michael D. Ervers 2/25/04  
Title: President, Tennessee Koyo Steering

STATE OF TENNESSEE )  
 ) SS  
COUNTY OF Monroe )

Subscribed and sworn to before me this 25 day of February, 2004.

Galen R Moore  
Notary Public

My Commission Expires: 11-29-05



Application Serial No. \_\_\_\_\_

Attorney Docket No. KOY 001

PATENT APPLICATION FOR: Nos. 5,709,283; 6,286,382;  
6,422,779 and 2003/0168826;

INVENTOR(S): \_\_\_\_\_

2003 OCT 14 PM 12:06 DATE MAILED: October 9, 2003

PLEASE STAMP AND SIGN RECEIPT IN THE U.S. PATENT OFFICE OF THE FOLLOWING:

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☒ Check No. 006023 for \$160.00

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OMB No. 0651-0027 (exp. 6/30/2005)

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U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

TRW Koyo Steering Systems, Co.

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☐ Assignment ☐ Merger  
☐ Security Agreement ☒ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: 10/7/2003

2. Name and address of receiving party(ies)

Name: Tennessee Koyo Steering Systems Co.

Internal Address: \_\_\_\_\_

Street Address: 55 Excellence Way

City: Vonore State: TN Zip: 37885

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s) 2003/0168826

B. Patent No.(s) 5,709,283;  
6,286,382; 6,422,779

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: John M. Johnson, Esq.

Internal Address: Carter Ledyard & Milburn LLP

Street Address: 2 Wall Street

City: New York State: NY Zip: 10005

6. Total number of applications and patents involved: 4

7. Total fee (37 CFR 3.41).....\$ 160.00

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

8. Deposit account number:

DO NOT USE THIS SPACE

9. Signature.

John M. Johnson Reg. No. 33,334  
Name of Person Signing

Signature

October 9, 2003  
Date

Total number of pages including cover sheet, attachments, and documents: 4

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

**Tennessee Koyo Steering Systems Co.  
Minutes of  
The Board of Representatives**

**Time and Place**

Held on October 7, 2003, at the office of Tennessee Koyo Steering Systems Co. in Vonore, TN.

**Agenda**

The agenda followed at the meeting is shown in Attachment 1.

**Representative Present**

Kiyoshi Takeda	(in person)
Yuji Doi	(in person)
Michael D. Bowers	(in person)
Akihisa Muyama	(in person)
William J. Dona	(in person)
Koji Okamatsu	(in person)

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MAR 23 2004  
**GROUP 3600**

**Preliminary Proceedings**

The Chairman noted that all six representatives were present at the meeting in person. Thus a quorum was constituted in accordance with the terms of the Partnership Agreement. The Chairman then declared the meeting duly convened and called into session.

**Resolutions**

1. **Change of Company Name**

Due to September 30, 2003 ownership change to 100% Koyo Seiko companies, the new official name for the company has been changed from TRW Koyo Steering Systems Co. to Tennessee Koyo Steering Systems Co.

2. **Board of Representative**

As advised by Koyo Seiko, the two previous TRW board seats will be filled by Mr. Yuji Doi and William J. Dona. Upon motion duly made and seconded, the representatives were unanimously approved:

RESOLVED, to accept the new representatives as proposed.

The representatives decided the date for the next Board meeting and that it will be held at TKS, wherein the management of TKS is to present an update of its 2004 Operations Plan and a final 2004-2008 LRP to the Board in conjunction with other issues pertinent to TKS.

The proposed date is mid-June, 2004.

**Conclusion**

There being no other business, the meeting was adjourned at 5:00 p.m. on October 7, 2003.

  
Kiyoshi Takeda, Representative

  
Michael D. Bowers, Representative

Attachment: Agenda

Attachment

Record of Attendance

October 7, 2003 meeting of the Board at TKS.

Kiyoshi Takeda

Kiyoshi Takeda

Yuji Doi

Yuji Doi

Michael D. Bowers

Michael D. Bowers

Akihisa Muiyama

A. Muiyama

William J. Dona

William J. Dona

Koji Okamatsu

Koji Okamatsu

Verification of signatures

Notary for State of Tennessee  
County of Monroe

Helen R Moore 10/7/03  
Notary Public

Commission Expires 11/29/05



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MAR 23 2004

GROUP 3600

Application Serial No. \_\_\_\_\_ Attorney Docket No. K0401001

PATENT APPLICATION FOR: Nos. 5,709,283; 6,286,382;  
6,422,779 and 2003/0168826

INVENTOR(S): \_\_\_\_\_

2003 OCT 14 PM 12:06

DATE MAILED: October 9, 2003

PLEASE STAMP AND CONFIRM RECEIPT IN THE U.S. PATENT OFFICE OF THE FOLLOWING:

☒ Assignment and Recordation Cover Sheet

☒ Check No. 006022 for \$160.00

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(Rev. 10/02)

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U.S. Patent and Trademark Office

OMB No. 0651-0027 (exp. 6/30/2005)

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

TRW Automotive U.S. LLC

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: 9/30/2003

2. Name and address of receiving party(ies)

Name: TRW Koyo Steering Systems Company

Internal Address: \_\_\_\_\_

Street Address: 55 Excellence Way

City: Vonore State: TN Zip: 37885

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s) \_\_\_\_\_  
2003/0168826

B. Patent No.(s) 5,709,283;  
6,286,382; 6,422,779

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: John M. Johnson, Esq.

Internal Address: Carter Ledyard & Milburn LLP

Street Address: 2 Wall Street

City: New York State: NY Zip: 10005

6. Total number of applications and patents involved: 4

7. Total fee (37 CFR 3.41).....\$ 160.00

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

8. Deposit account number:

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9. Signature.

John M. Johnson Reg. No. 33,334  
Name of Person Signing

Signature

October 9, 2003  
Date

Total number of pages including cover sheet, attachments, and documents: 2

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

**ASSIGNMENT OF PATENTS**

**WHEREAS**, TRW Automotive U.S. LLC, a Delaware limited liability company having a place of business at 12025 Tech Center Drive, Livonia, Michigan 48150 ("Assignor"), is the exclusive owner of the following U.S. patent application, U.S. patents and their foreign equivalents (collectively referred to as "Patents"):

U.S. Patent No. 5,709,283  
U.S. Patent No. 6,286,382B1  
U.S. Patent No. 6,422,779B1  
U.S. Patent Application No. 2003/0168826A1

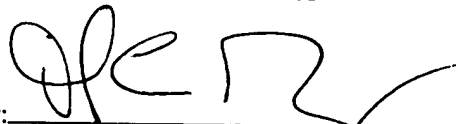
**WHEREAS**, TRW Koyo Steering Systems Company, a Tennessee general partnership having a place of business at 55 Excellence Way, Vonore, Tennessee 37885 ("Assignee"), desires to acquire the entire right, title and interest in, to and under the Patents and the inventions covered thereby;

**NOW, THEREFORE**, for and in consideration of the sum of One Dollar (\$1.00), to it in hand paid by said Assignee, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, said Assignor does hereby sell, assign, transfer and set over to said Assignee all its right, title and interest in, to and under said Patents and the inventions covered thereby and any divisions, reissues, continuations and extensions thereof, together with all rights and privileges granted and secured thereby, including the right to sue and recover for any past infringement, said rights to be held and enjoyed by said Assignee, for its own use and benefit and for the use and benefit of its successors, assigns or other legal representatives, to the end of the term for which said Patents are granted or reissued as fully and entirely as the same would have been held and enjoyed by said Assignor if this Assignment and sale had not been made.

**AND**, said Assignor hereby covenants that it has full right to convey the entire interest herein assigned.

**IN TESTIMONY WHEREOF**, Assignor has executed this Assignment by its proper officers thereunto duly authorized.

TRW AUTOMOTIVE U.S. LLC

By:   
David Bialosky  
Vice President and General Counsel

STATE OF MICHIGAN )

COUNTY OF Wayne )

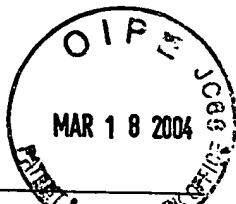
SS

Subscribed and sworn to before me this 30 day of September, 2003.

  
Notary Public

My Commission Expires: 11/23/04

GINGER M. EVANSKI  
NOTARY PUBLIC WAYNE CO., MI  
MY COMMISSION EXPIRES Nov 23, 2004



Application Serial No. \_\_\_\_\_

Attorney Docket No. K0902001

PATENT APPLICATION No. 2003/0168826

Patent Nos.: 6,286,382; 6,422,779; 5,709,283

INVENTOR(S): \_\_\_\_\_

DATE MAILED: March 9, 2004

PLEASE STAMP AND CONFIRM RECEIPT IN THE U.S. PATENT OFFICE OF THE FOLLOWING:

\_\_\_ Transmittal Cover Sheet

\_\_\_ Utility Application Transmittal

\_\_\_ Fee Transmittal

\_\_\_ Patent Application \_\_\_\_\_ pages

\_\_\_ Formal Drawings Figs.

\_\_\_ Declaration \_\_\_\_\_ Power of Attorney

☒ Check No. 9118 for \$ 160

☒ Assignment and Recordation Cover Sheet

\_\_\_ Certificate of Express Mailing No.

OTHER

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MAR 23 2004  
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Form PTO-1595  
(Rev. 10/02)

OMB No. 0651-0027 (exp. 6/30/2005)

RECORDATION FORM COVER SHEET  
**PATENTS ONLY**

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

Tab settings ⇌ ⇌ ⇌ ▼ ▼ ▼ ▼ ▼ ▼ ▼

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Northrop Grumman Space & Mission Systems Corp.  
(formerly known as TRW, Inc.)

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: 02/06/2004

2. Name and address of receiving party(ies)

Name: TRW Automotive U.S. LLC

Internal Address: \_\_\_\_\_

Street Address: 12025 Tech Center Drive

City: Livonia State: MI Zip: 48150

Additional name(s) & address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s) \_\_\_\_\_  
2003/0168826

B. Patent No.(s) 5,709,283;  
6,286,382; 6,422,779

Additional numbers attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: John M. Johnson

Internal Address: Carter Ledyard & Milburn LLP

Street Address: 2 Wall Street

City: New York State: NY Zip: 10005

6. Total number of applications and patents involved: **4**

7. Total fee (37 CFR 3.41).....\$ 160.00

- ☒ Enclosed  
☐ Authorized to be charged to deposit account

8. Deposit account number:

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9. Signature.

John M. Johnson Reg. No. 33,334  
Name of Person Signing

  
Signature

March 9, 2004  
Date

Total number of pages including cover sheet, attachments, and documents: **2**

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

**CONFIRMATORY ASSIGNMENT OF PATENTS**

WHEREAS, Northrop Grumman Space & Mission Systems Corp. (formerly known as TRW Inc.), an Ohio corporation ("Assignor") desires to confirm the assignment of the following U.S. patent application, U.S. patents and their foreign equivalents (collectively referred to as "Patents") to TRW Automotive U.S. LLC, a Delaware limited liability company ("Assignee") effective January 1, 2003:

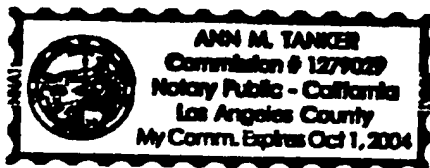
U.S. Patent No. 5,709,283  
U.S. Patent No. 6,286,382B1  
U.S. Patent No. 6,422,779B1  
U.S. Patent Application No. 2003/0168826A1

NOW, THEREFORE, for and in consideration of the sum of One Dollar (\$1.00), to it in hand paid by said Assignee, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, said Assignor does hereby confirm that effective January 1, 2003, Assignor assigned, transferred and set over to said Assignee all its right, title and interest in, to and under said Patents and the inventions covered thereby and any divisions, reissues, continuations and extensions thereof, together with all rights and privileges granted and secured thereby, including the right to sue and recover for any past infringement, said rights to be held and enjoyed by said Assignee, for its own use and benefit and for the use and benefit of its successors, assigns or other legal representatives, to the end of the term for which said Patents are granted or reissued as fully and entirely as the same would have been held and enjoyed by said Assignor if this Assignment and sale had not been made.

AND, said Assignor hereby covenants that it had full right to convey the entire interest herein assigned.

IN TESTIMONY WHEREOF, Assignor has executed this Assignment by its proper officers thereunto duly authorized.

NORTHROP GRUMMAN SPACE & MISSION  
SYSTEMS CORP.



By: Kathleen M. Salmas  
Kathleen M. Salmas  
Secretary

STATE OF CALIFORNIA )  
 ) SS  
COUNTY OF Los Angeles )

Subscribed and sworn to before me this 6<sup>th</sup> day of February, 2004.

Ann M. Tanker  
Notary Public

My Commission Expires: OCTOBER, 2004